

A3

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/522,883
Source: PTI/10
Date Processed by STIC: 2/8/05

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PCT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/522,883

DATE: 02/08/2005
TIME: 11:34:19

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\02082005\J522883.raw

3 <110> APPLICANT: CYTHERIS
5 <120> TITLE OF INVENTION: IL-7 drug substance, composition, preparation and uses.
7 <130> FILE REFERENCE: B0131WO
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/522,883
C--> 9 <141> CURRENT FILING DATE: 2005-02-02
9 <160> NUMBER OF SEQ ID NOS: 23
11 <170> SOFTWARE: PatentIn version 3.1
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 459
15 <212> TYPE: DNA
16 <213> ORGANISM: Artificial sequence
18 <220> FEATURE:
19 <223> OTHER INFORMATION: r-hIL-7 cDNA
21 <220> FEATURE:
22 <221> NAME/KEY: CDS
23 <222> LOCATION: (1)..(459)
24 <223> OTHER INFORMATION:
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29 Met Asp Cys Asp Ile Glu Gly Lys Asp Gly Lys Gln Tyr Glu Ser Val
30 1 5 10 15
32 ctg atg gtc agc atc gat caa tta ttg gac agc atg aaa gaa att ggt 96
33 Leu Met Val Ser Ile Asp Gln Leu Leu Asp Ser Met Lys Glu Ile Gly
34 20 25 30
36 agc aat tgc ctg aat aat gaa ttt aac ttt ttt aaa aga cat atc tgt 144
37 Ser Asn Cys Leu Asn Asn Glu Phe Asn Phe Phe Lys Arg His Ile Cys
38 35 40 45
40 gat gct aat aag gaa ggt atg ttt tta ttc cgt gct gct cgc aag ttg 192
41 Asp Ala Asn Lys Glu Gly Met Phe Leu Phe Arg Ala Ala Arg Lys Leu
42 50 55 60
44 agg caa ttt ctt aaa atg aat agc act ggt gat ttt gat ctc cac tta 240
45 Arg Gln Phe Leu Lys Met Asn Ser Thr Gly Asp Phe Asp Leu His Leu
46 65 70 75 80
48 tta aaa gtt tca gaa ggc aca aca ata ctg ttg aac tgc act ggc cag 288
49 Leu Lys Val Ser Glu Gly Thr Thr Ile Leu Leu Asn Cys Thr Gly Gln
50 85 90 95
52 gtt aaa gga aga aaa cca gct gcc ctg ggt gaa gcc caa cca aca aag 336
53 Val Lys Gly Arg Lys Pro Ala Ala Leu Gly Glu Ala Gln Pro Thr Lys
54 100 105 110
56 agt ttg gaa gaa aat aaa tct tta aag gaa cag aaa aaa ctg aat gac 384
57 Ser Leu Glu Glu Asn Lys Ser Leu Lys Glu Gln Lys Lys Leu Asn Asp
58 115 120 125
60 ttg tgt ttc cta aag aga cta tta caa gag ata aaa act tgt tgg aat 432

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61 Leu Cys Phe Leu Lys Arg Leu Leu Gln Glu Ile Lys Thr Cys Trp Asn
62 130 135 140
64 aaa att ttg atg ggc act aaa gaa cac 459
65 Lys Ile Leu Met Gly Thr Lys Glu His
66 145 150
69 <210> SEQ ID NO: 2
70 <211> LENGTH: 153
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: r-hIL-7 cDNA
77 <400> SEQUENCE: 2
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80 1 5 10 15
83 Leu Met Val Ser Ile Asp Gln Leu Leu Asp Ser Met Lys Glu Ile Gly
84 20 25 30
87 Ser Asn Cys Leu Asn Asn Glu Phe Asn Phe Phe Lys Arg His Ile Cys
88 35 40 45
91 Asp Ala Asn Lys Glu Gly Met Phe Leu Phe Arg Ala Ala Arg Lys Leu
92 50 55 60
95 Arg Gln Phe Leu Lys Met Asn Ser Thr Gly Asp Phe Asp Leu His Leu
96 65 70 75 80
99 Leu Lys Val Ser Glu Gly Thr Thr Ile Leu Leu Asn Cys Thr Gly Gln
100 85 90 95
103 Val Lys Gly Arg Lys Pro Ala Ala Leu Gly Glu Ala Gln Pro Thr Lys
104 100 105 110
107 Ser Leu Glu Glu Asn Lys Ser Leu Lys Glu Gln Lys Lys Leu Asn Asp
108 115 120 125
111 Leu Cys Phe Leu Lys Arg Leu Leu Gln Glu Ile Lys Thr Cys Trp Asn
112 130 135 140
115 Lys Ile Leu Met Gly Thr Lys Glu His
116 145 150
119 <210> SEQ ID NO: 3
120 <211> LENGTH: 531
121 <212> TYPE: DNA
122 <213> ORGANISM: Artificial sequence
124 <220> FEATURE:
125 <223> OTHER INFORMATION: r-hIL-7 cDNA
127 <220> FEATURE:
128 <221> NAME/KEY: CDS
129 <222> LOCATION: (1)..(531)
130 <223> OTHER INFORMATION:
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134 atg ttc cat gtt tct ttt agg tat atc ttt gga ctt cct ccc ctg atc 48
135 Met Phe His Val Ser Phe Arg Tyr Ile Phe Gly Leu Pro Pro Leu Ile
136 1 5 10 15
138 ctt gtt ctg ttg cca gta gca tca tct gat tgt gat att gaa ggt aaa 96
139 Leu Val Leu Leu Pro Val Ala Ser Ser Asp Cys Asp Ile Glu Gly Lys
140 20 25 30

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142 gat ggc aaa caa tac gag tcc gtt ctg atg gtc agc atc gat caa tta	144
143 Asp Gly Lys Gln Tyr Glu Ser Val Leu Met Val Ser Ile Asp Gln Leu	
144 35 40 45	
146 ttg gac agc atg aaa gaa att ggt agc aat tgc ctg aat aat gaa ttt	192
147 Leu Asp Ser Met Lys Glu Ile Gly Ser Asn Cys Leu Asn Asn Glu Phe	
148 50 55 60	
150 aac ttt ttt aaa aga cat atc tgt gat gct aat aag gaa ggt atg ttt	240
151 Asn Phe Phe Lys Arg His Ile Cys Asp Ala Asn Lys Glu Gly Met Phe	
152 65 70 75 80	
154 tta ttc cgt gct gct cgc aag ttg agg caa ttt ctt aaa atg aat agc	288
155 Leu Phe Arg Ala Ala Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ser	
156 85 90 95	
158 act ggt gat ttt gat ctc cac tta tta aaa gtt tca gaa ggc aca aca	336
159 Thr Gly Asp Phe Asp Leu His Leu Leu Lys Val Ser Glu Gly Thr Thr	
160 100 105 110	
162 ata ctg ttg aac tgc act ggc cag gtt aaa gga aga aaa cca gct gcc	384
163 Ile Leu Leu Asn Cys Thr Gly Gln Val Lys Gly Arg Lys Pro Ala Ala	
164 115 120 125	
166 ctg ggt gaa gcc caa cca aca aag agt ttg gaa gaa aat aaa tct tta	432
167 Leu Gly Glu Ala Gln Pro Thr Lys Ser Leu Glu Glu Asn Lys Ser Leu	
168 130 135 140	
170 aag gaa cag aaa aaa ctg aat gac ttg tgt ttc cta aag aga cta tta	480
171 Lys Glu Gln Lys Lys Leu Asn Asp Leu Cys Phe Leu Lys Arg Leu Leu	
172 145 150 155 160	
174 caa gag ata aaa act tgt tgg aat aaa att ttg atg ggc act aaa gaa	528
175 Gln Glu Ile Lys Thr Cys Trp Asn Lys Ile Leu Met Gly Thr Lys Glu	
176 165 170 175	
178 cac	531
179 His	
183 <210> SEQ ID NO: 4	
184 <211> LENGTH: 177	
185 <212> TYPE: PRT	
186 <213> ORGANISM: Artificial sequence	
188 <220> FEATURE:	
189 <223> OTHER INFORMATION: r-hIL-7 cDNA	
191 <400> SEQUENCE: 4	
193 Met Phe His Val Ser Phe Arg Tyr Ile Phe Gly Leu Pro Pro Leu Ile	
194 1 5 10 15	
197 Leu Val Leu Leu Pro Val Ala Ser Ser Asp Cys Asp Ile Glu Gly Lys	
198 20 25 30	
201 Asp Gly Lys Gln Tyr Glu Ser Val Leu Met Val Ser Ile Asp Gln Leu	
202 35 40 45	
205 Leu Asp Ser Met Lys Glu Ile Gly Ser Asn Cys Leu Asn Asn Glu Phe	
206 50 55 60	
209 Asn Phe Phe Lys Arg His Ile Cys Asp Ala Asn Lys Glu Gly Met Phe	
210 65 70 75 80	
213 Leu Phe Arg Ala Ala Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ser	
214 85 90 95	
217 Thr Gly Asp Phe Asp Leu His Leu Leu Lys Val Ser Glu Gly Thr Thr	

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218	100	105	110	
221	Ile Leu Leu Asn Cys Thr Gly Gln Val Lys Gly Arg Lys Pro Ala Ala			
222	115	120	125	
225	Leu Gly Glu Ala Gln Pro Thr Lys Ser Leu Glu Asn Lys Ser Leu			
226	130	135	140	
229	Lys Glu Gln Lys Lys Leu Asn Asp Leu Cys Phe Leu Lys Arg Leu Leu			
230	145	150	155	160
233	Gln Glu Ile Lys Thr Cys Trp Asn Lys Ile Leu Met Gly Thr Lys Glu			
234	165	170	175	
237	His			
241	<210> SEQ ID NO: 5			
242	<211> LENGTH: 37			
243	<212> TYPE: DNA			
244	<213> ORGANISM: Artificial sequence			
246	<220> FEATURE:			
247	<223> OTHER INFORMATION: Primer			
249	<400> SEQUENCE: 5			
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254	<211> LENGTH: 36			
255	<212> TYPE: DNA			
256	<213> ORGANISM: Artificial sequence			
258	<220> FEATURE:			
259	<223> OTHER INFORMATION: Primer			
261	<400> SEQUENCE: 6			
262	agccggatcc ttatcagtgt tcttttagtgc ccatca		36	
265	<210> SEQ ID NO: 7			
266	<211> LENGTH: 64			
267	<212> TYPE: DNA			
268	<213> ORGANISM: Artificial sequence			
270	<220> FEATURE:			
271	<223> OTHER INFORMATION: Primer			
273	<400> SEQUENCE: 7			
274	taggaaattc catatggatt gtgatattga aggtaaagat ggcaaacaat acgagtccgt		60	
276	tctg		64	
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280	<211> LENGTH: 48			
281	<212> TYPE: DNA			
282	<213> ORGANISM: Artificial sequence			
284	<220> FEATURE:			
285	<223> OTHER INFORMATION: Primer			
287	<400> SEQUENCE: 8			
288	gcaagcttgc caccatgttc catgtttctt ttaggtatat ctttggac		48	
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292	<211> LENGTH: 36			
293	<212> TYPE: DNA			
294	<213> ORGANISM: Artificial sequence			
296	<220> FEATURE:			
297	<223> OTHER INFORMATION: ptac1 primer			

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Input Set : A:\sequence listing.txt
 Output Set: N:\CRF4\02082005\J522883.raw

299 <400> SEQUENCE: 9		
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305 <212> TYPE: DNA		
306 <213> ORGANISM: Artificial sequence		
308 <220> FEATURE:		
309 <223> OTHER INFORMATION: ptac2 primer		
311 <400> SEQUENCE: 10		
312 atcgtctaga gctgtttcct gtgtgaaatt gttatccg		38
315 <210> SEQ ID NO: 11		
316 <211> LENGTH: 20		
317 <212> TYPE: DNA		
318 <213> ORGANISM: Artificial sequence		
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321 <223> OTHER INFORMATION: tac promoter primer		
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327 <210> SEQ ID NO: 12		
328 <211> LENGTH: 531		
329 <212> TYPE: DNA		
330 <213> ORGANISM: Artificial sequence		
332 <220> FEATURE:		
333 <223> OTHER INFORMATION: PS-sIL-7 cDNA		
335 <220> FEATURE:		
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337 <222> LOCATION: (1)..(531)		
338 <223> OTHER INFORMATION:		
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344 1 5 10 15		
346 ctt gtt ctg ttg cca gta gca tca tct gat tgt gat att gaa ggt aaa		96
347 Leu Val Leu Leu Pro Val Ala Ser Ser Asp Cys Asp Ile Glu Gly Lys		
348 20 25 30		
350 gat ggc aaa caa tac gag tcc gtt ctg atg gtc agc atc gat caa tta		144
351 Asp Gly Lys Gln Tyr Glu Ser Val Leu Met Val Ser Ile Asp Gln Leu		
352 35 40 45		
354 ttg gac agc atg aaa gaa att ggt agc aat tgc ctg aat aat gaa ttt		192
355 Leu Asp Ser Met Lys Glu Ile Gly Ser Asn Cys Leu Asn Asn Glu Phe		
356 50 55 60		
358 aac ttt ttt aaa aga cat cta tgt gat gat aat aag gaa ggt atg ttt		240
359 Asn Phe Phe Lys Arg His Leu Cys Asp Asp Asn Lys Glu Gly Met Phe		
360 65 70 75 80		
362 tta ttc cgt gct gct cgc aag ttg agg caa ttt ctt aaa atg aat agc		288
363 Leu Phe Arg Ala Ala Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ser		
364 85 90 95		
366 act ggt gat ttt gat ctc cac tta tta aaa gtt tca gaa ggc aca aca		336
367 Thr Gly Asp Phe Asp Leu His Leu Leu Lys Val Ser Glu Gly Thr Thr		

VERIFICATION SUMMARY

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DATE: 02/08/2005

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Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\02082005\J522883.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:27 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:24
L:133 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:130
L:341 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:12,Line#:338
L:487 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:16,Line#:484
L:609 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:18,Line#:606
L:723 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:20,Line#:720
L:845 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:22,Line#:842